Taking the wheel: how to change prescribing practices in your hospital

Dr Jennifer Stevens | St Vincent's Hospital

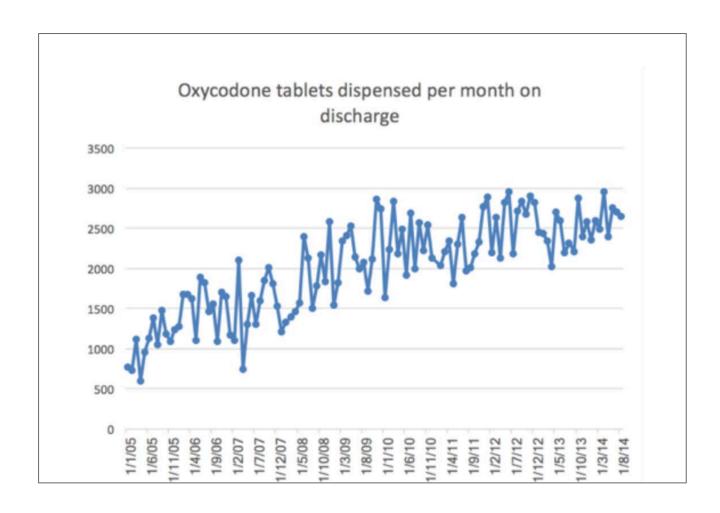




How did I end up in front of this camera when I am not a public speaker?



HOW DID I END UP HERE?



My pharmacy colleagues staged an intervention

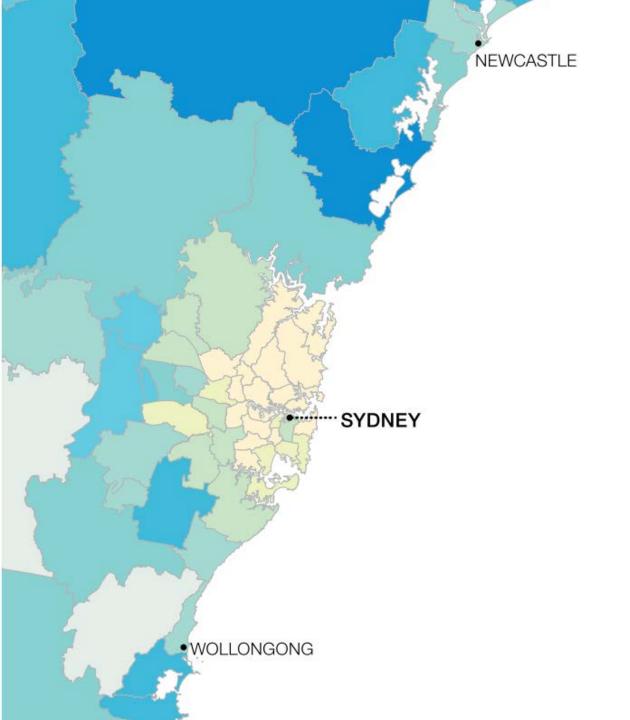
St Vincent's endone prescribing for discharge 2005 – 2014.



What is happening beyond my little bubble?

The number of PBS prescriptions dispensed for opioid medicines across 325 local areas (SA3s) ranged from 10,945 to 110,172 per 100,000 people.

The number of prescriptions was **10.1x higher** in the area with the highest rate compared to the area with the lowest rate.

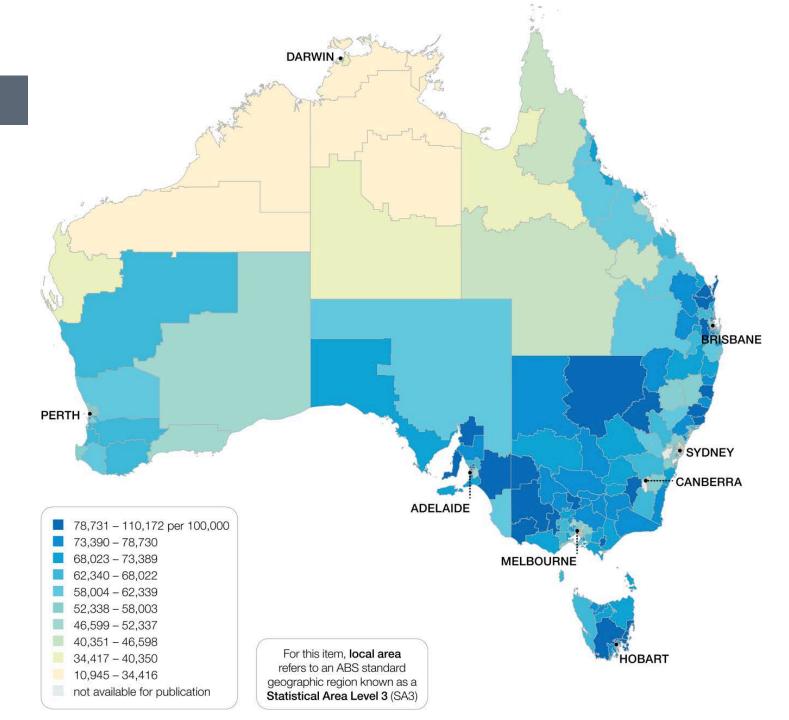


HOW DID I END UP HERE?

The broader picture

Opioid medicines dispensing

Fig 104. Number of PBS prescriptions dispensed for opioid medicines per 100,000 people, age standardised, by local area, 2013-14.





Others have done the audits for you. Sometimes the promises of big data come true!



What data is available to you?

You should be able to concentrate on auditing patient outcomes and leave the pill counting to centralised systems.



YOUR GEOGRAPHIC AREA



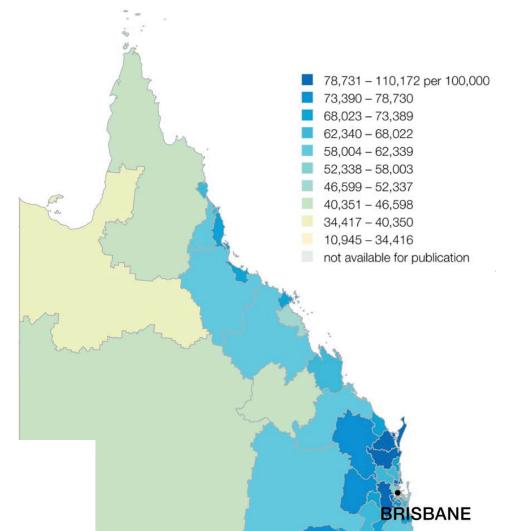
YOUR LOCAL HOSPITAL





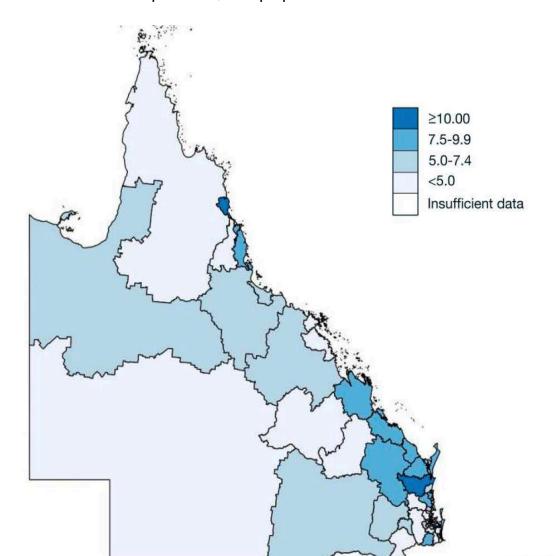
Australian Atlas (dispensing)

Number of PBS prescriptions dispensed for opioid medicines Rate per 100,000 people



Pennington Institute (deaths)

Unintentional drug-induced deaths. Rate per 100,000 population



Unintentional drug-induced deaths

Pennington Institute Annual Report

	2004-2008 rate	2009-2013 rate	2014-2018 rate
PHN301 Brisbane North			
Unintentional Drug-induced Deaths	4.0	5.9	5.7
Total Drug-induced Deaths	5.8	8.1	8.0
PHN303 Gold Coast			
Unintentional Drug-induced Deaths	4.2	5.8	7.5
Total Drug-induced Deaths	7.0	7.9	11.0
PHN101 Central and Eastern Sydney			
Unintentional Drug-induced Deaths	6.8	6.6	7.8
Total Drug-induced Deaths	8.8	8.5	9.5













Type of drug

Ratio of 2004-8 c/ 2014-18.

Pennington Institute Annual Report

	Ratio		
Heroin			
NSW	2.9		
VIC	1.8		
QLD	3.0		
Pharmaceutical Opioids			
NSW	2.6		
VIC	1.6		
QLD	4.2		
Stimulants			
NSW	3.9		
VIC	4.3		
QLD	7.7		









Real-time display of numbers and trends by:

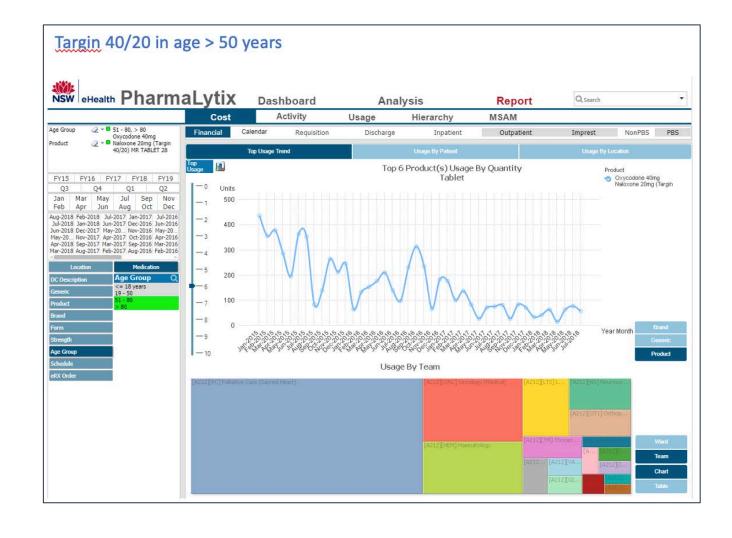
- ✓ Drug
- ✓ Dosage
- ✓ Formulation
- ✓ Team
- ✓ Ward





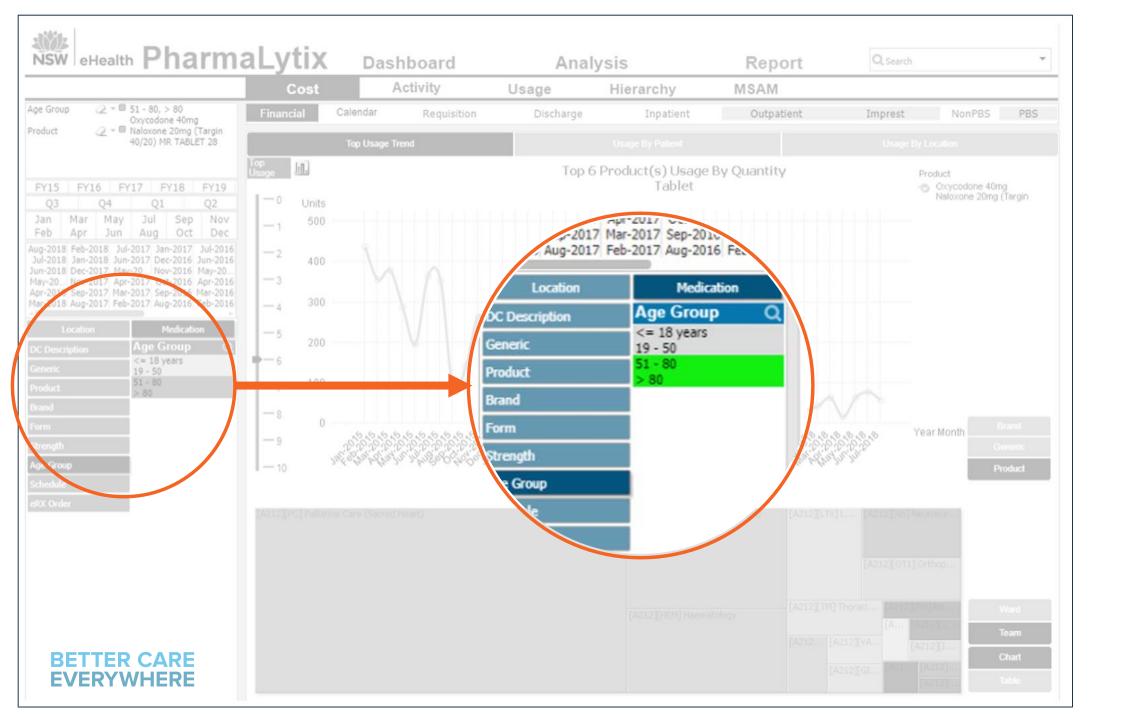
Real-time pharmacy data

This is the dashboard available for each hospital in NSW.











One individual can make a big difference. Take the challenge and take the wheel!



One important lesson of the first narcotic epidemic is that physicians were educable. Indeed, by 1919, narcotic overprescribing was the hallmark of older, less-competent physicians. The younger, better-trained practitioners who replaced them were more circumspect about administering and prescribing opioids.

Blair T. 1919.

Is opium the "sheet-anchor of treatment"?

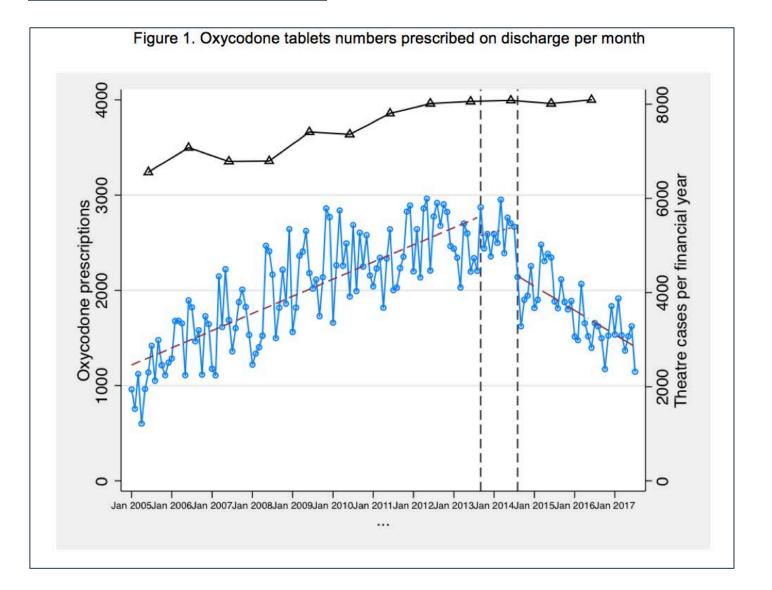
Am. J. Clin. Med.



Five years ago, just driving down the number of tablets going out the door seemed a reasonable aim.



TAKE THE WHEEL



Stevens J, Trimboli A, Samios P. et al. Anaesthesia. 9 Jan 2019

Now we aim to improve opioid prescribing through a focus on the outcomes that matter to patients.



Where should I start? What are the easiest parts to tackle?



Maximising multimodal techniques

- NSAIDs. Be very specific about their use on discharge.
- NSAIDs are not contraindicated in the well elderly. Pain from a fracture may be more responsive to NSAIDs than opioids.
- Local anaesthetic techniques, especially the catheter techniques.
 Our hospitals should be using them as a routine for patients having laparotomies, TKR's, selected fractured ribs, with robust policies around them.

Slow-release opioids



Mounting evidence highlights the inappropriate use of slow-release opioids for the treatment of acute pain. The recommendations in this statement are in line with the approved indications for slow-release opioids listed by regulatory authorities including the Therapeutic Goods Administration in Australia, Medsafe in New Zealand, and the US Food and Drug Administration.

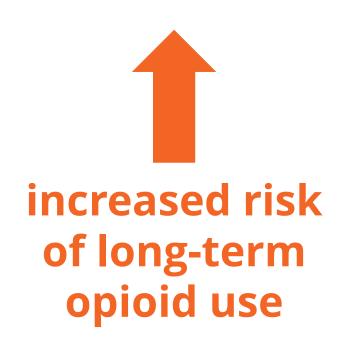


Increased respiratory depression – starting SR opioids with IR is like running an IV infusion as a background with PCA. We know this increases risk.

4.8X

more likely to overdose The highest risk group for post-surgical overdose risk in 64,000 veterans was for those combining short- and long-acting opioids.

Overdose Risk Associated with Opioid Use upon Hospital Discharge in Veterans Health Administration Surgical Patients. Pain Med. 2018



Prescription of slow-release opioids in the initial treatment of pain is associated with an increased risk of long-term opioid use.

I think the use of post-operative SR opioids in the opioid naïve has added little or nothing and caused huge problems for some patients.



Introduction of

STATEMENT ON SR OPIOIDS

- ✓ Large reduction in use of postoperative SR opioids
- ✓ Large reduction in SR opioids prescribed at discharge

Tan A, Bugeja B, Begley D, Khor K, Stevens J, Penm J. Post-operative use of slow-release opioids: The impact of the ANZCA/FPM position statement on clinical practice. Anaesth Int Care. 2020;Nov 17.

- ✓ Reduction in OME day 0-3
- ✓ Reduction in OME at discharge
- ✓ Reduction in days of pills at discharge

THINGS THAT MATTER TO PATIENTS

 ✓ Reduction in day 0-3 median pain score at rest and movement

- ✓ Decrease opioidrelated adverse events (1.5)
- ✓ Decreased LOS
- ✓ Decreased 28-day re-admission rate

10.10/o
still taking opioids

Prevalence and predictors of persistent post-surgical opioid use. Data 2015-16.

10.1% of opioid-naïve patients are still taking opioids ≥90 days post-surgery.

Stark N, Kerr S, Stevens J. Anaes Int Care 2017:45(6) St Vincent's Private Hospital; Curran Foundation Grant





Secondary outcomes

Anxiety OR 2.1

Spinal surgery OR 4.0

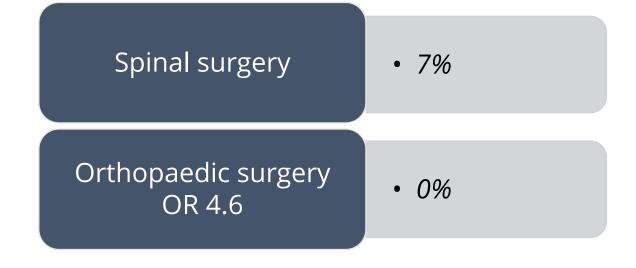
• 28.5%

Orthopaedic surgery OR 4.6

• 15.1%

Pain

Secondary outcomes with 2020 audit







Will your local community and GPs be affected?

- Reducing opioid prescribing at discharge does not:
 - ✓ make patients less satisfied with care;
 - ✓ result in more visits to the GP for prescriptions worsen analgesia.
- Consumption relates more closely to supply than to pain.
- GPs shouldn't be left with the job of weaning unnecessary SR opioids postoperatively.





Where have I ended up? Hopefully, more responsive to the needs of individual patients.



Up next

- A conversation with Dr Jennifer
 Stevens and Dr Tejas Kanhere
- Q&A with Dr Chris Hayes, Dr Jennifer
 Stevens and Dr Tejas Kanhere



AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE

bettercareeverywhere.gov.au